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Substitute for Form 1449/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 1

Attorney Docket Number

REN-01-125-US

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PTB	C	International Search Report, PCT/03/25276, pp. 1-5 (January 10, 2005)	
↓	C	BEVAN et al., Database NCBI, Accession No. ATT32M21 (Mar 2000)	

Examiner Signature	<i>Monica T. Brown</i>	Date Considered	3/18/06
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2.32) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. REN-01-125-US	SERIAL NO. 10/634,548
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT NORRIS et al.	
		FILING DATE August 5, 2003	GROUP 1638

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### U.S. PATENT DOCUMENTS

	A						
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### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
	B						
	B						
	B						
	B						
	B						
	B						
	B						
	B						

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PTB	C	BOWIE et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", Science, 247:1306-1310 (1990)
↓	C	McCONNELL et al., "Role of Phabulosa and Phavoluta in determining radial patterning in shoots", Nature, 411(6838): 709-713 (2001)
↓	C	BAKER et al., NCBI Accession Number X64451 (Dec 1993)
	C	
	C	

• References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner

Phuong Bui

Date Considered

3/18/06

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(Form PTO-1449 [6-4])

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APPLICANT  
NORRIS et al.

FILING DATE August 5, 2003 GROUP 1638



**"RELATED" U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PFB	A	2002/0069426	06 June 02	Boronat et al.			
	A	2002/0108148	08 Aug 02	Boronat et al.			
	A	2003/0148300	07 Aug 03	Valentin et al.			
	A	2003/0150015	07 Aug 03	Norris et al.			
	A	2003/0154513	14 Aug 03	van Eenennaam et al.			
	A	2003/0166205	04 Sep 03	van Eenennaam et al.			
	A	2003/0170833	11 Sep 03	Lassner et al.			
	A	2003/0176675	18 Sep 03	Valentin et al.			
	A	2003/0213017	13 Nov 03	Valentin et al.			
	A	2004/0018602	29 Jan 04	Lassner et al.			
	A	2004/0045051	04 Mar 04	Norris et al.			

**U.S. PATENT DOCUMENTS**

	A	4,727,219	23 Feb 88	Brar et al.			
	A	5,304,478	19 Apr 94	Bird et al.			
	A	5,429,939	04 Jul 95	Misawa et al.			
	A	5,432,069	11 Jul 95	Grüninger et al.			
	A	5,545,816	13 Aug 96	Ausich et al.			
	A	5,618,988	08 Apr 97	Hauptmann et al.			
	A	5,684,238	04 Nov 97	Ausich et al.			
	A	5,693,507	02 Dec 97	Daniell et al.			
	A	5,750,865	12 Mar 98	Bird et al.			
	A	5,792,903	11 Aug 98	Hirschberg et al.			
	A	5,876,964	02 Mar 99	Croteau et al.			
	A	5,908,940	01 Jun 99	Lane et al.			
	A	6,281,017	28 Aug 01	Croteau et al.			
	A	6,303,365	16 Oct 01	Martin et al.			
	A	6,541,259	01 Apr 03	Lassner et al.			

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Date Considered

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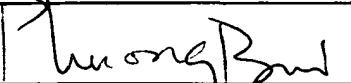
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				FILING DATE	GROUP	
				August 5, 2003	1638	

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
PTB	B	2,339,519	17 Feb 00	Canada		/	Eng Version of WO 00/08169
	B	2,343,919	30 Mar 00	Canada		/	Eng Version of WO 00/17233
	B	2,372,332	02 Nov 00	Canada		/	Eng Version of WO 00/65036
	B	1 033 405 A2	06 Sep 00	EPO			
	B	0 674 000 A2	27 Sep 95	EPO			
	B	0 531 639 A2 & A3	17 Mar 93	EPO			
	B	0 723 017 A2	24 Jul 96	EPO			
	B	0 763 542 A2	19 Mar 97	EPO			
	B	1 063 297 A1	27 Dec 00	EPO			NO
	B	2 778 527		FR			YES
	B	DE 198 35 219 A1	05 Aug 98	German/English			YES=CA2339519
	B	560,529	07 Apr 44	Great Britain			
	B	WO 00/01650	13 Jan 00	PCT			
	B	WO 00/08169	17 Feb 00	PCT			YES=CA2339519
	B	WO 00/08187	17 Feb 00	PCT			
	B	WO 00/10380	02 Mar 00	PCT			
	B	WO 00/11165	02 Mar 00	PCT			
	B	WO 00/14207	16 Mar 00	PCT			
	B	WO 00/17233	30 Mar 00	PCT			YES=CA2343919
	B	WO 00/22150 A3	20 Apr 00	PCT			
	B	WO 00/28005	18 May 00	PCT			
	B	WO 00/32757 A2 & A3	08 Jun 00	PCT			
	B	WO 00/34448	15 Jun 00	PCT			YES
	B	WO 00/42205 A2 & A3	20 Jul 00	PCT			
↓	B	WO 00/46346	10 Aug 00	PCT			YES

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PTB	B	WO 00/61771	19 Oct 00	PCT	1			
	B	WO 00/63389	26 Oct 00	PCT				
	B	WO 00/63391	26 Oct 00	PCT				
	B	WO 00/65036 A2 & A3	02 Nov 00	PCT			YES	CA 2372332
	B	WO 00/68393	16 Nov 00	PCT				
	B	WO 01/04330	18 Jan 01	PCT				
	B	WO 01/09341	08 Feb 01	PCT				
	B	WO 01/12827	22 Feb 01	PCT				
	B	WO 01/21650	29 Mar 01	PCT				
	B	WO 01/44276	21 Jun 01	PCT				
	B	WO 01/62781	30 Aug 01	PCT			Partial	
	B	WO 01/79472	25 Oct 01	PCT				
	B	WO 01/88169 A2 & A3	22 Nov 01	PCT				
	B	WO 02/00901 A1	03 Jan 02	PCT			YES	
	B	WO 02/26933	04 Apr 02	PCT				
	B	WO 02/29022	11 Apr 02	PCT				
	B	WO 02/31173	18 Apr 02	PCT			YES	
	B	WO 02/33060	25 Apr 02	PCT				
	B	WO 02/46441	13 Jun 02	PCT				
	B	WO 02/072848	19 Sep 02	PCT				
	B	WO 02/089561	14 Nov 02	PCT				
	B	WO 03/034812	01 May 03	PCT				
	B	WO 03/047547	12 Jun 03	PCT				
	B	WO 91/02059	21 Feb 91	PCT				
	B	WO 91/09128	27 Jun 91	PCT				
	B	WO 91/13078	05 Sep 91	PCT				
	B	WO 93/18158	16 Sep 93	PCT				
	B	WO 94/11516	26 May 94	PCT				
↓	B	WO 94/12014	09 Jun 94	PCT				

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PTB	B	WO 94/18337	18 Aug 94	PCT			
	B	WO 95/08914	06 Apr 95	PCT			
	B	WO 95/18220	06 Jul 95	PCT			Abstract
	B	WO 95/23863	08 Sep 95	PCT			
	B	WO 95/34668	21 Dec 95	PCT			
	B	WO 96/02650	01 Feb 96	PCT			
	B	WO 96/06172	29 Feb 96	PCT			
	B	WO 96/13149	09 May 96	PCT			
	B	WO 96/13159	09 May 96	PCT			
	B	WO 96/36717 A2 & A3	21 Nov 96	PCT			
	B	WO 96/38567	05 Dec 96	PCT			US equivalent
	B	WO 97/17447	15 May 97	PCT			
	B	WO 97/27285	31 Jul 97	PCT			
	B	WO 97/49816	31 Dec 97	PCT			
	B	WO 98/04685	05 Feb 98	PCT			
	B	WO 98/06862	19 Feb 98	PCT			
	B	WO 98/18910	07 May 98	PCT			
	B	WO 99/04021	28 Jan 99	PCT			
	B	WO 99/04622	04 Feb 99	PCT			
	B	WO 99/06580	11 Feb 99	PCT			
	B	WO 99/07867	18 Feb 99	PCT			
	B	WO 99/11757	11 Mar 99	PCT			YES
	B	WO 99/19460	22 Apr 99	PCT			
✓	B	WO 99/55889	04 Nov 99	PCT			
	B	WO 99/58649	18 Nov 99	PCT			

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PTB	C	ADDLESEE et al., "Cloning, sequencing and functional assignment of the chlorophyll biosyntheses gene, chlP, of <i>Synechocystis</i> sp. PCC 6803", FEBS Letters 389 (1996) 126-130
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PTB	c	ARANGO et al., "Tocopherol synthesis from homogenitise in <i>Capsicum annuum</i> L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", <i>Biochem J.</i> , 336:531-533 (1998)
	c	ARIGONI et al., "Terpenoid biosynthesis from 1-deoxy-D-xylulose in higher plants by intramolecular skeletal rearrangement", <i>Proc. Natl. Acad. Sci. USA</i> , 94:10600-10605 (1997)
	c	BAKER et al., "Sequence and characterization of the <i>gcpE</i> gene of <i>Escherichia coli</i> ", <i>FEMS Microbiology Letters</i> , 94:175-180 (1992)
	c	BAYLEY et al., "Engineering 2,4-D resistance into cotton," <i>Theor Appl Genet</i> , 83:645-649 (1992)
	c	BENTLEY, R., "The Shikimate Pathway – A Metabolic Tree with Many Branches," <i>Critical Reviews™ in Biochemistry and Molecular Biology</i> , Vol. 25, Issue 5, 307-384 (1990)
	c	BEVAN, M., "Binary <i>Agrobacterium</i> vectors for plant transformation", <i>Nucleic Acids Research</i> , 12:8711-8721 (1984)
	c	BEYER et al., "Phytoene-forming activities in wild-type and transformed rice endosperm," <i>IRRN</i> 21:2-3, p 44-45 (August-December 1996)
	c	BORK et al., "Go hunting in sequence databases but watch out for the traps", <i>TIG</i> 12, 10:425-427 (October 1996)
	c	BOUVIER et al., "Dedicated Roles of Plastid Transketolases during the Early Onset of Isoprenoid Biogenesis in Pepper Fruits", <i>Plant Physiol.</i> , 117:1423-1431 (1998)
	c	BRAMLEY et al., "Biochemical characterization of transgenic tomato plants in which carotenoid synthesis has been inhibited through the expression of antisense RNA to pTOM5," <i>The Plant Journal</i> , 2(3), 343-349 (1992)
	c	BREITENBACH et al., "Expression in <i>Escherichia coli</i> and properties of the carotene ketolase from <i>Haematococcus pluvialis</i> ," <i>FEMS Microbiology Letters</i> 140, 241-246 (1996)
	c	BROUN et al., "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," <i>Science</i> , 282:1315-1317 (1998)
	c	BUCKNER et al., "The <i>y1</i> Gene of Maize Codes for Phytoene Synthase," <i>Genetics</i> 143:479-488 (May 1996)
	c	BURKHARDT et al., "Genetic engineering of provitamin A biosynthesis in rice endosperm," <i>Experientia</i> , 818-821
	c	BURKHARDT et al., "Transgenic rice ( <i>Oryza sativa</i> ) endosperm expressing daffodil ( <i>Narcissus pseudonarcissus</i> ) phytoene synthase accumulates phytoene, a key intermediate of provitamin A biosynthesis" <i>The Plant Journal</i> , 11(5), 1071-1078 (1997)
	c	CAHOON et al., "Production of Fatty Acid Components of Meadowfoam Oil in Somatic Soybean Embryos," <i>Plant Physiology</i> , 124:243-251 (2000)
	c	CHAUDHURI et al., "The purification of shikimate dehydrogenase from <i>Escherichia coli</i> ," <i>Biochem. J.</i> , 226:217-223 (1985)
	c	CHENG et al., "Highly Divergent Methyltransferases Catalyze a Conserved Reaction in Tocopherol and Plastoquinone Synthesis in Cyanobacteria and Photosynthetic Eukaryotes", <i>The Plant Cell</i> , 15:2343-2356 (2003)
✓	c	COLLAKOVA et al., "Isolation and Functional Analysis of Homogenitase Phytoltransferase from <i>Synechocystis</i> sp. PCC 6803 and <i>Arabidopsis</i> ", <i>Plant Physiology</i> , 127:1113-1124 (2001)

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PTB	c	COLLAKOVA et al., "Homogentisate Phytoltransferase Activity is Limiting for Tocopherol Biosynthesis in <i>Arabidopsis</i> ", <i>Plant Physiology</i> , 131:632-642 (Feb. 2003)
	c	COLLAKOVA et al., "Isolation and Characterization of Tocopherol Prenyl Transferase From <i>Synechocystis</i> and <i>Arabidopsis</i> ", Poster Abstract see REN-01-026
	c	COOK et al., "Nuclear Mutations affecting plastoquinone accumulation in maize", <i>Photosynthesis Research</i> , 31:99-111 (1992)
	c	CUNILLERA et al., "Characterization of dehydrololichyl diphosphate synthase of <i>Arabidopsis thaliana</i> , a key enzyme in dolichol biosynthesis", <i>FEBS Letters</i> , 477:170-174 (2000)
	c	d'AMATO et al., "Subcellular localization of chorismate-mutase isoenzymes in protoplasts from mesophyll and suspension-cultured cells of <i>Nicotiana silvestris</i> ," <i>Planta</i> , 162:104-108 (1984)
	c	DOERKS et al., "Protein annotation: detective work for function prediction", <i>TIG</i> , 14:248-250 (1998)
	c	d'HARLINGUE et al., "Plastid Enzymes of Terpenoid Biosynthesis, Purification and Characterization of $\gamma$ -Tocopherol Methyltransferase from <i>Capsicum</i> Chromoplasts," <i>The Journal of Biological Chemistry</i> , Vol. 260, No. 28, pp. 15200-15203, December 5, 1985
	c	De LUCA, Vincenzo, "Molecular characterization of secondary metabolic pathways", <i>AgBiotech News and Information</i> , 5(6):225N-229N (1993)
	c	DUNCAN et al., "The overexpression and complete amino acid sequence of <i>Escherichia coli</i> 3-dehydroquinase", <i>Biochem. J.</i> , 238:475-483 (1986)
	c	DUVOLD et al., "Incorporation of 2-C-Methyl-D-erythritol, a Putative Isoprenoid Precursor in the Mevalonate-Independent Pathway, into Ubiquinone and Menaquinone of <i>Escherichia coli</i> ", <i>Tetrahedron Letters</i> , 38(35):6181-6184 (1997)
	c	ELLIOTT, Thomas, "A Method for Constructing Single-Copy <i>lac</i> Fusions in <i>Salmonella typhimurium</i> and Its Application to the <i>hemA-prfA</i> Operon", <i>Journal of Bacteriology</i> , 174:245-253 (1992)
	c	EISENREICH et al., "The deoxyxylulose phosphate pathway of terpenoid biosynthesis in plants and microorganisms", <i>Chemistry &amp; Biology</i> , 5(9):R221-R233 (1998)
	c	ERICSON et al., "Analysis of the promoter region of napin genes from <i>Brassica napus</i> demonstrates binding of nuclear protein <i>in vitro</i> to a conserved sequence motif", <i>Eur. J. Biochem.</i> , 197:741-746 (1991)
	c	ESTÉVEZ et al., "1-Deoxy-D-xylulose-5-phosphate Synthase, a Limiting Enzyme for Plastidic Isoprenoid Biosynthesis in Plants", <i>The Journal of Biological Chemistry</i> , 276(25):22901-22909 (2001)
	c	FELLERMEIER et al., "Cell-free conversion of 1-deoxy-D-xylulose 5-phosphate and 2-C-methyl-D-erythritol 4-phosphate into $\beta$ -carotene in higher plants and its inhibition by fosmidomycin", <i>Tetrahedron Letters</i> , 40:2743-2746 (1999)
	c	FIEDLER et al., "The formation of homogentisate in the biosynthesis of tocopherol and plastoquinone in spinach chloroplasts", <i>Planta</i> , 155:511-515 (1982)
✓	c	FOURGOUX-NICOL et al., "Isolation of rapeseed genes expressed early and specifically during development of the male gametophyte", <i>Plant Molecular Biology</i> , 40:857-872 (1999)

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PTB	c	FRASER et al., "Enzymic confirmation of reactions involved in routes to astaxanthin formation, elucidated using a direct substrate <i>in vitro</i> assay", Eur. J. Biochem., 252:229-236 (1998)
	c	FRASER et al., "In Vitro Characterization of Astaxanthin Biosynthetic Enzymes", The Journal of Biological Chemistry, 272(10) 6128-6135 (1997)
	c	FRAY et al., "Constitutive expression of a fruit phytoene synthase gene in transgenic tomatoes causes dwarfism by redirecting metabolites from the gibberellin pathway", The Plant Journal, 8(5):693-701 (1995)
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	c	FUQUA et al., "Characterization of <i>melA</i> : a gene encoding melanin biosynthesis from the marine bacterium <i>Shewanella colwelliana</i> ", Gene, 109:131-136 (1991)
	c	FURUYA et al., "Production of Tocopherols by Cell Culture of Safflower", Phytochemistry, 26(10):2741-2747 (1987)
	c	GARCIA et al., "Subcellular localization and purification of a <i>p</i> -hydroxyphenylpyruvate dioxygenase from cultured carrot cells and characterization of the corresponding cDNA", Biochem. J., 325:761-769 (1997)
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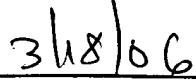
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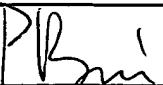
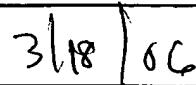
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	c	ROUNSLEY et al., Database EMBL, Accession No. B29398 (Oct 1997)
↓	c	ROUNSLEY et al., Database TREMBL, Accession No. 064684 (Aug 1998)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	PTB	Date Considered	3/18/06
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(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2.32) PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. REN-01-125-US	SERIAL NO. 10/634,548
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT NORRIS et al.	
			FILING DATE August 5, 2003	GROUP 1638

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• References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	<i>RB</i>	Date Considered	3/18/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT NORRIS et al.	
			FILING DATE August 5, 2003	GROUP 1638

PTB	c	International Search Report, PCT/US01/42673, pp. 1-4
	c	International Search Report, PCT/US02/03294, pp. 1-4 (March 19, 2003)
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	c	Written Opinion, PCT/US02/34079, pp. 1-4 (October 23, 2003)
	c	Response to Written Opinion, PCT/US02/34079, pp. 1-6 (December 22, 2003)
✓	c	slr 1736 cyanobase <a href="http://www.kazusa.com">www.kazusa.com</a>

• References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	PB	Date Considered
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3/18/06

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